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**PATENT**

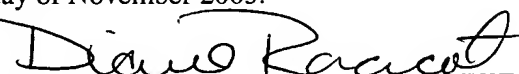
Attorney Docket No. ZCO-101

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANTS: Russell et al. CONFIRMATION NO. 1167  
SERIAL NO.: 10/817,159 GROUP NO.: 1732  
FILING DATE: April 2, 2004 EXAMINER: Not Yet Assigned  
TITLE: Apparatus and Methods for 3D Printing

**CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8**

I hereby certify that this correspondence, and any document(s) referred to as enclosed herein, is/are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 14<sup>th</sup> day of November 2005.

  
Diane Racicot

**Mail Stop Amendment**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Submitted herewith is/are:

1. Transmittal Form (1 pg.);
2. Seventh Supplemental Information Disclosure Statement (2 pgs.);
3. Form PTO-1449 (2 pgs); and
5. Return receipt postcard



# TRANSMITTAL FORM

Application Serial Number	10/817,159
Filing Date	April 2, 2004
First Named Inventor	Russell
Group Art Unit	1732
Examiner Name	Not Yet Assigned
Attorney Docket No.	ZCO-101
Confirmation No.	1167

## ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Check Attached <input type="checkbox"/> Copy of Fee Transmittal Form	<input type="checkbox"/> Copy of Notice to File Missing Parts of Application (PTO-1553) <input type="checkbox"/> Formal Drawing(s) <input type="checkbox"/> Request For Continued Examination (RCE) Transmittal <input type="checkbox"/> Associate Power of Attorney <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Copy of Declaration and Power of Attorney for Utility or Design Patent Application <input type="checkbox"/> Small Entity Statement <input type="checkbox"/> CD(s) for large table or computer program <input type="checkbox"/> Amendment After Allowance <input type="checkbox"/> Request for Certificate of Correction <input type="checkbox"/> Certificate of Correction (in duplicate)	<input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences <input type="checkbox"/> Appeal Brief (in triplicate) <input type="checkbox"/> Status Inquiry <input checked="" type="checkbox"/> Return Receipt Postcard <input checked="" type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8 <input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8 <input type="checkbox"/> Additional Enclosure(s) (please identify below)
<input type="checkbox"/> Amendment & Response <input type="checkbox"/> Preliminary <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Letter to Official Draftsperson including Drawings [Total Sheets ____] <input type="checkbox"/> Petition for Extension of Time <input checked="" type="checkbox"/> Seventh Supplemental Information Disclosure Statement <input checked="" type="checkbox"/> Form PTO-1449 <input type="checkbox"/> Copy of IDS Citations <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Sequence Listing submission <input type="checkbox"/> Paper Copy/CD <input type="checkbox"/> Computer Readable Copy <input type="checkbox"/> Statement verifying identity of above		

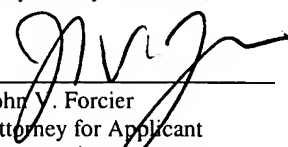
## CORRESPONDENCE ADDRESS

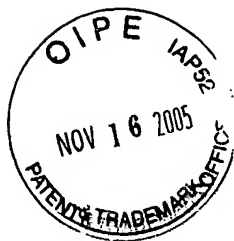
Direct all correspondence to: Patent Administrator  
Goodwin | Procter LLP  
Exchange Place  
Boston, MA 02109  
Tel. No.: (617) 570-1000  
Fax No.: (617) 523-1231  
Customer No. 051414

## SIGNATURE BLOCK

Date: November 14, 2005  
Reg. No. 42,545  
Tel. No.: (617) 570-1607  
Fax No.: (617) 523-1231

Respectfully submitted,

  
John V. Forcier  
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Goodwin | Procter LLP  
Exchange Place  
Boston, MA 02109



PATENT  
Attorney Docket No. ZCO-101

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Russell et al. CONFIRMATION NO. 1167  
SERIAL NO.: 10/817,159 GROUP NO.: 1732  
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Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. In accordance with 37 C.F.R. 1.98(a)(2), only copies of the foreign patent documents and non-patent publications are enclosed

**REMARKS**

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

- ☒ (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- ☐ (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**
- ☐ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or

- ☐ (3) after the mailing date of a **final action** or **notice of allowance** but before the payment of the **issue fee**, **AND**
- ☐ the requisite Statement is below, **AND**
- ☐ the requisite petition fee under 37 C.F.R. 1.17(p), namely **\$180.00** is included herein.

It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

### STATEMENT

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [check the appropriate space only if either (2) or (3) is checked on the previous page and the Statement is required]:

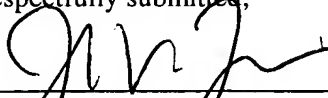
- ☐ 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- ☐ 2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any individual** designated in 37 C.F.R. 1.56(c) **more than three months** prior to the filing of the Information Disclosure Statement.

Date: November 14, 2005  
Reg. No. 42,545

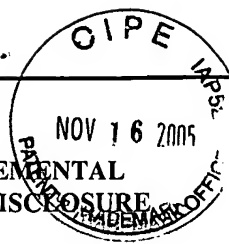
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LIBC/2637965.1

Respectfully submitted,

  
\_\_\_\_\_  
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Goodwin Procter LLP  
Exchange Place  
Boston, Massachusetts 02109  
Customer No. 051414

FORM PTO - 1449

SEVENTH SUPPLEMENTAL  
INFORMATION DISCLOSURE  
STATEMENT

ATTORNEY DOCKET NO.: ZCO-101

APPLICANTS: Russell *et al.*

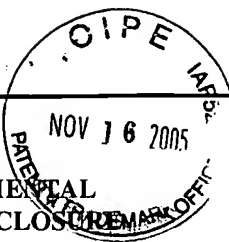
SERIAL NO.: 10/817,159

FILING DATE: April 2, 2004 GROUP: 1732

## U.S. PATENT DOCUMENTS

EXAM. INIT.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	4,853,717	8/1/89	Harmon et al.			
	4,872,026	10/3/89	Rasmussen et al.			
	5,027,134	6/25/91	Harmon et al.			
	5,103,244	4/7/92	Gast et al.			
	5,115,250	5/19/92	Harmon et al.			
	5,216,449	6/1/93	English			
	5,146,243	9/8/92	English et al.			
	5,448,270	9/5/95	Osborne			
	5,587,729	12/24/96	Lee et al.			
	5,450,105	9/12/95	Dangelo			
	5,534,896	7/9/96	Osborne			
	5,559,538	9/24/96	Nguyen et al.			
	5,682,186	10/28/97	Bohorquez et al.			
	5,712,668	1/27/98	Osborne et al.			
	5,745,133	4/28/98	Hendricks et al.			
	5,757,395	5/26/98	Chew et al.			
	5,812,157	9/22/98	Nguyen et al.			
	5,867,184	2/2/99	Quintana			
	5,917,516	6/29/99	Nguyen et al.			
	5,956,053	9/21/99	Michael			
	6,000,779	12/14/99	Ng et al.			
	6,027,209	2/22/00	Menendez et al.			
	6,116,719	9/12/00	Maza			
	6,135,585	10/24/00	Johnson et al.			
	6,193,353	2/27/01	Vives et al.			
	6,199,973	3/13/01	Bartolome et al.			
EXAMINER			DATE CONSIDERED			

FORM PTO - 1449

SEVENTH SUPPLEMENTAL  
INFORMATION DISCLOSURE  
STATEMENT

ATTORNEY DOCKET NO.: ZCO-101

APPLICANTS: Russell *et al.*

SERIAL NO.: 10/817,159

FILING DATE: April 2, 2004 GROUP: 1732

## U.S. PATENT DOCUMENTS

EXAM. INIT.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	6,220,689	4/24/01	Sturgeon			
	6,250,736	6/26/01	Wojcik			
	6,270,183	8/7/01	Gaarder			
	6,309,044	10/30/01	Gaarder			
	6,386,678	5/14/02	Michael <i>et al.</i>			
	6,390,593	5/21/02	DeRoos <i>et al.</i>			
	6,402,288	6/11/02	Rhodes <i>et al.</i>			
	6,533,388	3/18/03	Toh <i>et al.</i>			
	6,540,323	4/1/03	Dowell <i>et al.</i>			
	6,609,779	8/26/03	Davis <i>et al.</i>			
	6,623,098	9/23/03	Davis			
	6,918,648	7/19/05	Tee <i>et al.</i>			
	2001/0000434	4/26/01	Medin			
	2001/0010526	8/2/01	Barinaga			
	2002/0186271	12/12/02	Yamada <i>et al.</i>			
	2003/0081047	5/1/03	Yearout			
	2004/0196333	10/7/04	Yoshiyama <i>et al.</i>			
	2005/0179722	8/18/05	Silverbrook			
	2005/0179733	8/18/05	Silverbrook			

## FOREIGN PATENT DOCUMENTS

EXAM. INIT.	DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)

## OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)

EXAMINER

DATE CONSIDERED